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1999

MONTANA COMMERCIAL

FEED / FERTILIZER REPORT

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VOLUME 46, 1999

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Feed Program

Issued as of	8/98	7/99	8/00
Feed Licenses	569	568	667
Feed Registrations			
Companies with Registrations	339	347	137
Pet/Specialty Pet Registrations	2877	3126	3100
Other Commercial Feeds	3229	3322	0

Fertilizer Program

Issued as of	8/98	7/99	8/00
Fertilizer Licenses	272	264	251
Fertilizer Registrations			
Companies with Registrations	189	181	197
Specialty Registrations	1008	999	845
Commercial Fertilizers	327	355	392
Soil Amendments	106	126	132

f&f/analysis/ffsumlic

Feed Sampling & Analysis History

Year	Samples Taken	Out of Tolerance	% Out of Tolerance
1977	368	124	33.7
1978	401	105	26.2
1979	231	39	16.9
1980	437	62	14.2
1981	251	73	29.1
1982	332	82	24.7
1983	354	72	20.3
1984	266	64	24.1
1985	406	106	26.1
1986	290	50	17.2
1987	265	60	22.6
1988	280	57	20.4
1989	293	50	17.1
1990	310	54	17.4
1991	241	43	17.8
1992	335	76	22.7
1993	272	71	26.1
1994	312	89	28.5
1995	237	38	16
1996	235	77	32.8
1997	264	99	37.5
1998	296	125	42.2
1999	286	88	30.8

1999 Feed Sampling & Analysis Breakdown

Nutrient	Analyzed	Out of Tolerance	% Out of Tolerance
Protein	251	24	9.6
NPN	19	1	5.3
Fiber	2	1	50
Moisture	8	0	0
Calcium	201	37	18.4
Phosphorus	196	14	7.1
Salt	138	9	6.5
Vitamin A	107	13	12.1
Magnesium	12	2	16.7
Potassium	9	1	11.1
Zinc	30	1	3.3
Iron	7	1	14.3
Selenium	87	27	31
Copper	35	5	14.3
Manganese	5	0	0
Sodium	6	2	33.3
Lysine	35	0	0
Methionine	20	0	0
Amprolium	3	0	0
Chlortetracycline	7	0	0
Oxtetracycline	7	0	0
Monensin	7	1	14.3
Sulfamethazine	2	0	0
Total	1185	138	11.6

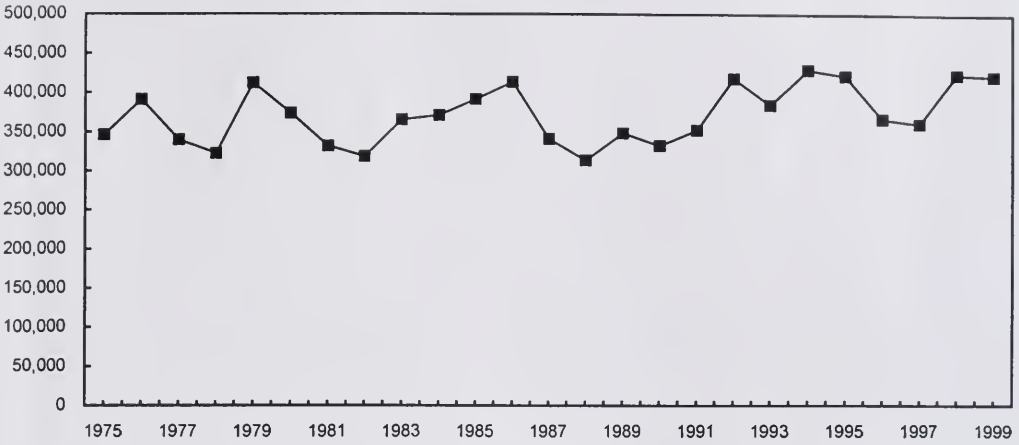
MONTANA COMMERCIAL FEED REPORTED FOR 1999

FORMULA FEEDS		NO. OF TONS		FEED INGREDIENTS	NO. OF TON
Broiler Feeds	Complete	558		Alfalfa Products	2913
	Supplement	138		Amino Acid Products	45
Turkey Feeds	Complete	351		Animal Products	158
	Supplement	114		Barley Products	4541
Starter-	Complete	2171		Beet Products	28982
Grower	Supplement	889		Brewer Products	101
(Egg-type)				Canola Products	9575
Layer-	Complete	2501		Cottonseed Products	7753
Breeder	Supplement	1183		Drug Products	253
(Egg-type)				Fats & Oils	569
Beef Feeds	Complete	57716		Linseed & Flax Product	265
	Supplement	94988		Maize Products	23688
Dairy Feeds	Complete	4085		Marine Products	42
	Supplement	3869		Milk Products	133
Swine Feeds	Complete	5452		Mineral Products	11680
	Supplement	5265		Molasses	17816
Sheep Feeds	Complete	2560		Oat Products	1592
	Supplement	1018		Probiotic/Yeast	81
Horse Feeds	Complete	6667		Safflower Products	7042
	Supplement	2561			
Mineral Feeds	Complete	1399		Soybean Products	14701
	Supplement	8220		Sunflower Products	401
Rabbit Feeds		596		Urea	735
Mineralized Salt		4060		Vitamin Products	364
				Wheat Products	69302
Miscellaneous		8682		Misc. Ingredients	3832
Formula Feeds Total		**215,043**		**Feed Ingredients Total**	**206,564**

FDTNBK99

Total Commercial Feed 421,607 Tons

Feed Tonnage History



Year	Tonnage
1975	346,242
1976	391,176
1977	339,946
1978	322,452
1979	412,113
1980	373,463
1981	331,625
1982	318,312
1983	365,620
1984	371,317
1985	391,558
1986	413,452
1987	341,579
1988	314,336
1989	349,280
1990	332,997
1991	352,762
1992	418,090
1993	384,607
1994	429,600
1995	421,846
1996	366,756
1997	360,971
1998	423,573
1999	421,607

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Fertilizer Sampling & Analysis History

Year	# Samples Taken	# Samples Deficient	% Samples Deficient
1977	448	32	7.1
1978	533	30	5.6
1979	365	21	5.8
1980	506	27	5.3
1981	428	24	5.6
1982	607	41	6.8
1983	558	50	9
1984	379	58	15.3
1985	368	55	14.9
1986	228	43	18.9
1987	175	25	14.3
1988	228	18	7.9
1989	128	17	13.3
1990	154	31	20.1
1991	142	18	12.7
1992	107	21	19.6
1993	89	18	20.2
1994	172	21	12.2
1995	216	31	14.4
1996	208	23	11.1
1997	124	18	14.5
1998	172	27	15.7
1999	215	31	14.4

1999 Fertilizer Sampling & Analysis Breakdown

Nutrient	# Analyzed	# Deficient	% Deficient
Nitrogen	178	10	5.6
Phosphate	112	11	9.8
Potash	82	9	11
Sulfur	46	5	10.9
Iron	2	2	
Cadmium	1	0	0
Total	421	37	8.8

MONTANA DEPARTMENT OF AGRICULTURE
FERTILIZER SOLD IN MONTANA
Reported by Montana Agricultural Statistic Districts

JANUARY - JUNE 1999

FERTILIZER	NORTH WEST	SOUTH WEST	NORTH CENTRAL	CENTRAL	SOUTH CENTRAL	NORTH EAST	SOUTH EAST	TOTAL
Anhydrous Ammonia	1,465	171	8,739	11,368	559	5,610	1,301	29,213
Ammonium Nitrate	1,905	6,012	5,367	2,446	7,547	456	67	23,800
Ammonium Sulfate	1,835	1,278	3,164	576	1,070	3,324	247	11,494
Urea	2,677	2,851	44,847	23,200	11,099	25,907	2,514	113,095
Ammonium Thiosulfate	1,239	133	312	0	28	261	0	1,973
Nitrogen Sols. 32%	460	671	429	585	363	0	0	2,508
Nitrogen Sols. 28%	0	0	5,037	194	0	3,600	1	8,832
Phosphorus Material	0	11	273	6	0	0	0	290
Potash Material	2,331	1,086	10,178	3,767	1,848	1,643	835	21,688
Sulfur	112	58	515	17	585	176	30	1,493
DAP	654	941	3,479	2,213	3,267	8,614	2,143	21,311
MAP	2,449	3,372	35,505	10,660	4,133	13,266	2,782	72,167
APS	1,085	1,809	2,497	5,079	1,521	459	289	12,739
10-34-0	0	84	1,968	61	57	963	4	3,137
OTHER BLENDS	0	5	1,582	1,282	5	133	1,156	4,163
MICRONUTRIENTS	86	24	0	13	420	40	44	627
GYPSUM/LIME	380	0	30	0	0	6	13	429
COMPOST	0	0	0	0	0	0	0	0
TOTALS	16,678	18,506	123,922	61,467	32,502	64,458	11,426	328,959

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JULY - DECEMBER 1999

FERTILIZER	NORTH WEST	SOUTH WEST	NORTH CENTRAL	CENTRAL	SOUTH CENTRAL	NORTH EAST	SOUTH EAST	TOTAL
Anhydrous Ammonia	7	351	18,205	7,294	1,873	5,997	1,725	35,452
Ammonium Nitrate	326	3,934	852	1,273	4,762	47	300	11,494
Ammonium Sulfate	287	613	2,685	444	1,279	1,375	50	6,733
Urea	263	3,038	33,808	10,387	9,995	20,516	1,973	79,980
Ammonium Thiosulfate	0	89	204	19	17	0	0	329
Nitrogen Sols. 32%	332	505	779	1,665	377	31	0	3,689
Nitrogen Sols. 28%	0	0	1,339	440	0	807	0	2,586
Phosphorus Material	0	12	100	116	0	25	0	253
Potash Material	247	489	5,138	1,466	1,730	902	376	10,348
Sulfur	22	52	27	24	162	39	21	347
DAP	101	440	545	1,707	2,630	2,532	809	8,764
MAP	335	1,974	26,973	6,151	7,574	5,290	819	49,116
APS	160	1,899	790	3,311	728	148	87	7,123
10-34-0	0	48	608	155	7	0	0	818
OTHER BLENDS	20	10	33	55	81	7	157	363
MICRONUTRIENTS	22	11	0	0	64	16	11	124
GYPSUM/LIME	50	1	0	0	1	1	12	65
COMPOST	400	0	0	0	0	0	0	400
TOTALS	2,572	13,466	92,086	34,507	31,280	37,733	6,340	217,984

FRTNPK'99

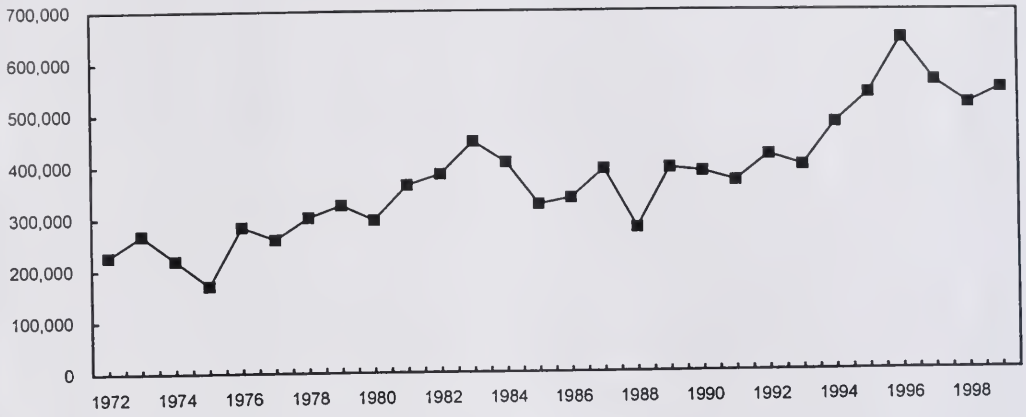
MONTANA DEPARTMENT OF AGRICULTURE
FERTILIZER SOLD IN MONTANA
FOR THE YEAR 1999

FERTILIZER	JAN.-JUN. 1999	JULY-DEC. 1999	YEARLY TOTALS
Anhydrous Ammonia	29,213	35,452	64,665
Ammonium Nitrate	23,800	11,494	35,294
Ammonium Sulfate	11,494	6,733	18,227
Urea	113,095	79,980	193,075
Ammonium Thiosulfate	1,973	329	2,302
Nitrogen Sols. 32%	2,508	3,689	6,197
Nitrogen Sols. 28%	8,832	2,586	11,418
Phosphorus Material	290	253	543
Potash Material	21,688	10,348	32,036
Sulfur	1,493	347	1,840
DAP	21,311	8,764	30,075
MAP	72,167	49,116	121,283
APS	12,739	7,123	19,862
10-34-0	3,137	818	3,955
OTHER BLENDS	4,163	363	4,526
MICRONUTRIENTS	627	124	751
GYPSUM/LIME	429	65	494
COMPOST	0	400	400
TOTALS	328,959	217,984	546,943

FRTNPK99

TOTAL NITROGEN	104,955	81,402	186,357
TOTAL P205	52,327	31,500	83,826
TOTAL K2O	13,013	6,209	19,222

Fertilizer Tonnage History



Year	Tonnage
1972	226,939
1973	268,061
1974	219,197
1975	170,324
1976	283,925
1977	259,211
1978	301,487
1979	324,838
1980	295,958
1981	363,295
1982	384,387
1983	447,407
1984	406,567
1985	325,887
1986	337,626
1987	393,505
1988	279,616
1989	395,033
1990	387,583
1991	368,868
1992	418,982
1993	397,957
1994	481,300
1995	538,356
1996	645,344
1997	562,292
1998	517,388
1999	546,943

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